

CONFIDENTIAL

RDT

December 11, 1957

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Attention: [redacted]

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Dear [redacted]

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In accordance with our telephone conversation of 9 December I am sending herewith a description of the work involved in the redesign of the Mobile Hydrogen Generator. It will be remembered that the basic problem areas were discussed during my visit on 4 December.

The section of this redesign program in which the participation of [redacted] is particularly desired is as follows:

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- (a) Review the time temperature data obtained from heating and cooling of the generator retorts and conduct such further tests as are necessary to determine adequate information on this characteristic
- (b) Using this time/temperature data, conduct a stress analysis of the generator retort
- (c) From this analysis recommend a new design for the generator retort and outline suitable evaluation testing.

Since time is extremely short the present R&D facility at ERDL, Fort Belvoir, Virginia will commence work immediately. Their work will be directed toward modifying the fire box and burner design to provide for even retort heating to a lower operating temperature and they will conduct initial time/temperature testing. It is proposed that ERDL will make the necessary modifications, procure necessary parts and furnish personnel for generator operation during the evaluation testing.

It is requested that [redacted] submit a proposal for the work outlined in paragraph 2, sections a, b and c above.

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Sincerely,

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